ADEQ Water Quality Division SFY13 EOY Assessment

The following summary reviews ADEQ's WQD SFY13 implementation of Clean Water Act and Safe Drinking Water Act programs as described in the Integrated workplan. The evaluation is based on commitments in the workplan, reports/submittals and information gathered during ongoing program conference calls. Overall, performance continues to be effective and reflect the dynamic nature of our work.

Administration

ADEQ Water Quality Division (WQD), hereafter "ADEQ" receives approximately $4.8M annually through several EPA grants to implement water programs, excluding the State Revolving Funds.

WIFA is a separate state agency charged with implementing the Clean Water and Drinking Water State Revolving Funds. ADEQ uses Drinking Water State Revolving Fund (DWSRF) setasides for program implementation ($4.6M).

The bulk of federal funding is awarded annually through a Performance Partnership Grant (PPG) which combines CWA 106, PWSS and NPS funds. ADEQ also receives a separate monitoring grant and NPS projects grant. ADEQ develops an annual integrated workplan covering all activities and commitments for federally and non-federally funded tasks, and is based on a SFY (July 1- June 30).

All agencies in Arizona have been bound by a legislative rules moratorium since 2009. The Governor may grant an exception if the regulatory change lessens or eases a regulatory burden. ADEQ is thus unable to update any CWA or SDWA regulations. The WQD maintains a list of regulatory changes needed and may seek approval of minor water quality standard changes in SFY14.

Clean Water Act

Regional Water Quality Management Planning

Water quality management planning for wastewater facilities continues through the CWA Section 208 process. ADEQ provided CWA 604(b) grant funds to the planning agencies, often Council of Governments (COGs). ADEQ provided technical assistance during the approval process for one 208 amendment and for thirty-three 208 Consistency Reviews. One water quality management planning agency completed their draft 208 regional plan update. Growth is still slow, and subsequently fewer 208 reviews were submitted. However, permit applications continue to be submitted for expanding facilities, renewals, and new facilities.

Ambient Monitoring

In SFY 2013 probabilistic monitoring was in the Warm Region. ADEQ supplements their statewide probabilistic monitoring with targeted monitoring: to address data gaps identified by the 305(b) planning list; to support WQS and TMDL development; to monitor Arizona's

Outstanding waters and investigate complaints. In SFY13 ADEQ collected a total of 186 surface water samples and 73 ground water samples.

ADEQ is currently involved in several projects that support development of WQS. In SFY13 ADEQ continued monitoring three effluent dependent waters, to evaluate their impact on wadeable perennial streams. As part of a four year sampling plan, ADEQ continued to collect nutrient data to support development of nutrient standards for rivers and streams. ADEQ also collected data as part of the two year rivers and streams NARS. Contract work was completed for physical integrity to assess relative bed stability as a new standard. Contracts were also used to complete intermittent stream sampling to evaluate the development of intermittent stream biocriteria water quality standards.

In SFY14 EPA looks forward to continued progress in the following areas:

- Entering all surface water quality data in STORET on a quarterly basis
- Refinement of nutrient criteria for lakes and development of nutrient criteria for rivers
- Monitoring in the cold region (>5000 feet) and statewide
- Coordinating with other ADEQ programs on monitoring in priority watersheds

Concern

EPA's monitoring grant requires all state-generated water quality data be entered into a publicly available database, STORET. ADEQ has significant gaps in data entry (since 2005) and has struggled with data transfer from the state system to the federal system due to staff IT shortages.

Water Quality Standards

In SFY13 ADEQ committed to completing work on: developing implementation procedures for antidegradation, biocriteria, bottom deposits and fish consumption standards; to initiate a WQS triennial review; and to continue work on the lakes narrative nutrient standards.

The biocriteria and bottom deposits implementation procedures were public noticed in September 2012. ADEQ met with commenters on several occasions, made revisions and prepared a response to comments. The documents are in final review. The fish consumption and antidegradation procedures await formal public review.

ADEQ submitted a request for rule making exception for SFY13, but did not receive a response from the governor in time to complete the triennial review as planned. In support of the triennial review, ADEQ held regular meetings throughout the fall of 2012 to update the status of projects and to discuss appropriate revisions and draft language; conducted research to support new or revised standards on boron, *E. Coli*, and nutrients; and identified latitude and longitude errors for surface waters in Appendix B of the Arizona WQS.

EPA supports ADEQ's efforts to develop nutrient criteria which began with lakes. ADEQ provided data and other support to the contractor re-evaluating the lakes narrative nutrient standards; collected additional data under the Nutrient Monitoring Strategy; reviewed EPA's 2013 criteria document for ammonia; and conducted a literature search on the occurrence of

freshwater mussels in Arizona. The presence of mussels would lower the applicable numeric ammonia criteria.

In SFY14 EPA looks forward to continued progress on:

- Arizona's 2014 WQS Triennial Review including some revisions accepted by the governor;
- Working with ADEQ on revisions to their Lakes Narrative Nutrient Standards and continuing work on Rivers and Streams nutrient standards development; and
- Finalizing antidegradation implementation procedures.

Water Quality Assessment and Total Maximum Daily Load (TMDL) Development
ADEQ responded to comments and revised the 2010 IR which was approved by EPA in June 2013. Simultaneously, ADEQ drafted the 2012/2014 IR. As part of the 2012/2014 IR ADEQ developed an organochlorine pesticide delist report for several reaches of the Gila River. In the SFY13 workplan, ADEQ added a new deliverable and developed water quality improvement success stories for Alum Gulch, Pinto Creek and Turkey Creek.

ADEQ met its target to finalize four TMDLs, and complete the initial public notice for three TMDLs. The Gila River suspended sediment concentration TMDLs (2) were submitted to EPA and approved in April 2013. The Little Colorado River *E.coli* TMDLs (2) were submitted for approval in June, 2013. The Alamo Lake Mercury TMDL (1) and San Pedro River *E.coli* TMDLs (3) completed a first round of public notice. ADEQ also continued to collect and analyze data for TMDLs and Implementation plans in several watersheds including Big Bug Creek, Mule Gulch, Queen Creek and Pinto Creek.

The TMDL Unit spent significant time working in EPA and ADEQ priority watersheds including the Santa Cruz River, Granite Creek/Watson Lake and Boulder Creek. ADEQ modeled data, drafted TMDLs, shared data, participated in public meetings, workgroups, and stakeholder meetings. In addition, ADEQ is participating with Region 9 in an EPA HQ led effort to develop a revised ACS measure for TMDLs (SP10).

In SFY14, EPA looks forward to continued progress on:

- Submittal of the Watson Lake and Granite Creek Nutrient and *E.coli* TMDLs to EPA and for public notice;
- Public notice of the 2012-2014 Integrated report; and
- Increasing coordination with other ADEQ and EPA programs to identify and complete TMDLs and assessments in priority watershed areas.

NPDES Permitting
ADEQ nearly met its commitment to maintain 90% of permits current (as defined by EPA). At the time of the SFY13 review, ADEQ was 89% current with 11 permits for majors, 14 permits for minors and 2 general permits expired greater than 180 days. ADEQ's permitting process was revised in 2011 to establish fee-based NPDES permits which may, in a few instances, delay permit issuance while awaiting receipt of permittee's payment.

ADEQ re-issued the Construction General Permit in SFY13. The ADOT stormwater permit renewal has been delayed although ADEQ projects its completion in SFY14. All seven municipal Phase I MS4 permits are current. The Phase II MS4 general permit currently provides coverage for 3 small cities; however based on 2010 census data, seven more communities are expected to enroll. In SFY13, ADEQ met with most of these communities to explain the Phase II program, requirements and expectations. ADEQ has developed a monitoring protocol document to help these communities implement their Phase II stormwater programs.

ADEQ, in partnership with City of Phoenix, has successfully enrolled many previous non-filers, to obtain coverage under the non-mining MSGP. This increase in future enrollees is expected to continue in SFY14.

ADEQ's CAFO permit expired in April 2009, and cannot be reissued until ADEQ's regulations can be revised to be consistent with EPA regulations. To resolve some problems associated with this expired permit, ADEQ issued an individual permit for one CAFO facility in SFY13.

In FY14, EPA looks forward to ADEQ's continued progress on permit renewals and efforts in the following specific areas:

- Quarterly updates on re-issuance of AZPDES permits from AZPDES unit to EPA's WTR-5 and WTR-5 for tracking status (while waiting for completion of software upgrades to connect the State's database and EPA's ICIS database)
- High profile permits, including Nogales IBWC, City of Sierra Vista, Asarco Mission.
- Variances from water quality standards have been requested by six AZPDES facilities
- MS4 Phase II permit development – 7 additional communities/clusters
- ADEQ's audit of 8 Ph II stormwater permits.
- Inclusion of EPA methods 245.7 or 1631 for detecting ultra low levels of mercury for assessment and compliance with effluent limitations
- Inter-office/agency program coordination on Watson Lake/Granite Creek TMDLs

Non Point Source (NPS) Program and Project (CWA 319) Management
Program implementation is based on a State Management Plan (SMP) which establishes objectives and activities to accomplish the objectives. Accomplishments are detailed in an Annual Nonpoint Source Program Report. Project oversight includes the solicitation, award and oversight of projects to improve water quality. Projects can take up to 7 years to complete. The SFY13 workplan reflects the milestones and commitments of the SMP. Beginning in SFY09 and continuing through SFY13, the NPS Program has focused on funding and providing technical support to watersheds prioritized on their Targeted Watersheds list. The key criteria for Targeted Watersheds list are the presence of NPS related impairments, as well as, local stakeholder interest and ability to effectively address impairments.

SFY13 marked the beginning of funding projects identified by local groups in their Watershed Improvement Plans (WIPs). This is a shift from state wide implementation request for proposals to targeting impaired watersheds that have local support and focused planning. WIPs have been completed for the following watersheds: Granite Creek, Oak Creek, San Francisco/Blue Rivers, and the San Pedro River. At the end of SFY13, implementation projects were awarded for Granite Creek, Oak Creek, and San Francisco/Blue River ($1.2 million). Multiple Requests for

Grant Assistance (RFGA) were made this year in response to reducing the unliquidated obligations.

ADEQ continued to work with Arizona Department of Emergency Management on mitigating run off from the catastrophic Wallow fire.

The EPA FFY12 load reduction deadline was met, with reductions of 2,991 lbs N, 1,468 lbs P, and 800 tons of sediment. Load reductions are calculated by the University of Arizona, who developed a load reduction model specifically developed for the arid Southwest. U of A continues to provide support to DEQ on load reductions and DNA markers.

ADEQ provided technical support and conducted nonpoint source education and outreach efforts to watershed stakeholders. ADEQ provided outreach materials for youth education programs and participated in 4 watershed groups or other public meetings to discuss watershed issues on both statewide and local scales.

ADEQ also coordinated the National Water Quality Initiative, which took some time to re-convince the National Resources Conservation Service to switch their priority watershed to ones where projects funded by the Environmental Quality Incentives Program (EQIP) would have the greatest effect. The Unit also worked on multi-agency watersheds, Upper Santa Cruz River and Hillside Mine; which required cross agency coordination.

In addition to projects based on good plans in targeted watershed in the upcoming year, EPA looks forward to being involved in the revision of the NPS Strategic Management Plan.

ADEQ continues to manage, and reduce, NPS pollution adaptively in Arizona.

In FY14 project efforts will include

Santa Cruz River

EPA and DEQ will continue to work together on developing an implementable plan for reducing pollutants in the SCR.

We will be meeting in the watershed to discuss reasonable outcomes and expectations with the local groups on January 22nd.

San Pedro River

The WIP is done and proposals will be submitted in the next RFGA round.It's expected that NRCS will work with its local lead on submitting projects.

Hillside

ADEQ will work with other State agencies on a completing project without EPA financial support.

The NPS grant that was earmarked for this project needs to be extended to 2016. EPA will extend the grant once we receive a written request from DEQ for a no-cost extension.

NPS Funds

Now that the Hillside project is in limbo, EPA is concerned that ADEQ NPS funds will be difficult to obligate ($3.2 million). EPA understands its role in the funding situation and will do everything it can to help the State obligate NPS funds within the year the funds were awarded.

Are all the match possibilities exhausted? State agency FTE (DOA, SLD) can be a match for Hillside, RCD's, or the repayment pot of SRF funds.

5-Year Plan Update

Draft timeline for finishing the SMP by June 2014 has been agreed to by Vollmer and Osterberg.

Wetlands and 404

ADEQ was directed by the legislature to evaluate 404 program assumption. In SFY13, ADEQ held stakeholder meetings to gather input. Additional meetings are expected in SFY14.

In SFY13, EPA and ADEQ worked collaboratively on the proposed Rosemont Mine. ADEQ has reviewed and commented on the EIS, has reviewed and issued permits under APP, MSGP and air and will be conducting an antidegradation analysis for the project and CWA 401 assessment for the 404 permit. EPA anticipates the collaborative process will continue in SFY14 with ADEQ on the antidegradation analysis and 401. EPA will continue to work with USFS on the EIS and the ACOE on the 404 permit.

Border

ADEQ operates and maintains an Office of Border Environmental Programs (OBEP) located in Tucson, AZ. They are responsible for border region and transboundary issues for all media activities along the US-Mexico Border Region. Specific to the Water Programs, OBEP's border engineer continued to provide high quality engineering reviews, project management and oversight, quality control and reporting in support of and in coordination with EPA's US-Mexico Border Program (PDAP and BEIF) projects. In SFY13, OBEP's border engineer stepped up to fill a void created when both EPA and the Border Environment Cooperation Commission (BECC) experienced staffing changes and performed project management tasks above and beyond his scope of work. The OBEP hydrologist has consistently provided exceptional technical support on water quality and storm water issues, oversight and reporting of spills from the International Outfall Interceptor (IOI) and outreach and training for utilities on both sides of the border. Additionally, the border hydrologist has worked tirelessly over the years to develop a sustainable industrial pretreatment program in Nogales, SN in an effort to mitigate the associated impacts to the Nogales International Wastewater Treatment plant and the Santa Cruz River. In SFY13 the pretreatment program achieved a level of functionality and an equilibrium unimaginable just a few years ago. OBEP has been invaluable in support of EPA water program efforts along the Border.

In SFY14, OBEP will continue its project management oversight of federally funded construction projects, provide technical support and assist with the oversight of the new pretreatment requirements in the AZPDES permit for Nogales. OBEP bi-weekly reports provide valuable information on efforts and activities along the Border,

Enforcement and Compliance

Inspections: ADEQ set a target of inspecting 50% of the major AZPDES permitted facilities (35 of 71) and 20% of the minor facilities (18 of 89) in SFY13. EPA's Compliance Monitoring Strategy (CMS) requires the inspection of majors once every two years (50%) and all minors inspected once in a 5 year cycle (20%). ADEQ inspected 35 major facilities and 20 minor facilities, thus meeting and exceeding the goals of the CMS for major and minor facilities, respectively. Additionally, ADEQ and SROCU responded to 23 citizen complaints related to the Clean Water Act, resulting in 21 non-routine inspections. ADEQ intends to pursue an Alternative Compliance Monitoring Strategy in response to the Auditor General's Report and non-compliance by minors.

ADEQ exceeded its stormwater inspection targets of 60 industrial and 60 construction (40 Phase 1 and 20 Phase 2) inspections in SFY13 by conducting 89 industrial, 68 Phase 1, and 36 Phase 2 construction inspections. Although EPA's CMS sets goals of 10% of all industrial facilities and 5-10% CMS goals for construction facilities, EPA has agreed to lower commitments instead seeking an inspection strategy. The CMS goals for the stormwater programs also include audits of MS4s. ADEQ did not commit to any Phase I MS4 audits but accompanied EPA and its contractor on 1 Phase I MS4 audit during SFY13. ADEQ did meet its commitments of 2 Phase II MS4 audits but have committed to 8 Phase II MS4 audits in SFY14. Responsibility for MS4 audits moved from the Compliance Section to the Surface Water Section. Coordination on audits and other stormwater inspections will be needed.

AZ has 100 CAFOs statewide covered by AZ APP permits and 2 subject to AZPDES permit. ADEQ exceeded its SFY13 target of 4 CAFO inspections by conducting 9 CAFO inspections of its permitted and unpermitted facilities. ADEQ met its SFY13 inspection targets for the biosolids program (5 POTWs and 6 land application facilities) and exceeded its target of 26 annual report reviews submitted under the biosolids rule by conducting 31 reviews.

In SFY14, EPA looks forward to continued progress in developing stormwater field capacity as ADEQ and EPA have agreed that stormwater inspections and MS4 audits are an area for improvement. Resource limitations, technical capacity and number of inspectors will continue to be an issue in meeting stormwater inspection commitments. ADEQ will continue to accompany EPA during MS4 audits to further develop skills in MS4 inspections. With limited resources, strategically focusing inspections is critical to ADEQ's program success. ADEQ and EPA will continue to communicate regularly on stormwater implementation.

Pretreatment Program: During SFY13, Arizona met all of their pretreatment targets. Specifically, ADEQ met its inspection targets (3 compliance inspections and 1 POTW SIU-oversight only inspection), auditing targets (one pretreatment audit of an approved pretreatment program) and report review targets (16 annual /semi-annual reports).

Additionally, there is a specific PPG target for ADEQ to support pretreatment work in the Ambos Nogales border region, as industrial wastewater from Mexico has caused or contributed to NPDES permit violations at the Nogales International Wastewater Treatment Plant. During SFY13, ADEQ finalized this permit and included more enforceable pretreatment to help protect

the treatment plant and its receiving water, the Santa Cruz River, from industrial pollutant discharges.

In SFY14, ADEQ has committed to an increased field presence and support to the increased pretreatment requirements for the NPDES permit issued for Nogales. EPA looks forward to ADEQ's continued progress in developing a comprehensive pretreatment program.

Data Management and Reporting: ADEQ did not meet its commitment to enter discharge monitoring reports and state inspection and enforcement actions into EPA's ICIS-NPDES national database. Due to data programming issues, ADEQ stopped flowing NPDES data into ICIS as of mid-November 2012. In the interim, ADEQ continued to enter permit and monitoring information into its state databases.

Without NPDES data in ICIS, EPA's view of discharger compliance data and state activities is severely limited. In particular, EPA cannot generate the QNCR history of major facilities in Significant Non Compliance (SNC) and the Watchlist (major facilities in SNC for 2 consecutive quarters). As a stop-gap measure, ADEQ did generate a QNVR of majors from its Azurite database. However, without the ICIS QNCR, compiling a list of SNCs and the Watchlist would require significant resource-intensive manual efforts, which neither ADEQ nor EPA could provide. ADEQ did submit its quarterly compliance reviews and reports to EPA on time.

Enforcement: In SFY13, ADEQ issued 2 Consent Orders to the Cities of Buckeye and Flagstaff, tracked the progress of 5 Administrative Orders from previous years, issued 68 Notices of Opportunity to Correct (NOCs) and Notices of Violation (NOVs) and closed 55 NOCs and NOVs. In addition, Prescott Valley agreed to a $657,000 settlement for various wastewater spills, including a discharge of 1.6 M gallons of wastewater into the Agua Fria River in January 2010. ADEQ continues to use informal enforcement tools and anticipates new processes established by the LEAN exercise will improve overall compliance efforts.

Major facilities are flagged as being in SNC if they have acute or chronic effluent limit violations that exceed EPA's criteria for magnitude and duration. Facilities may also be flagged as SNC for late submittal of discharge monitoring reports. Given ADEQ's data management issues discussed above, neither ADEQ nor EPA could generate a list of SNC violations during SFY13. Flagging SNC violations is an important tool for targeting enforcement to the highest priority violations. State enforcement response to SNC violations is a critical measure that EPA uses in our oversight of State NPDES enforcement programs

Concerns

ADEQ's inability to flow data into ICIS from mid-November 2012 has compromised EPA's ability to monitor and evaluate ADEQ's Surface Water Compliance and Enforcement program as detailed in Task 1.4.3 introductory section, and deliverables (11)(a) and (12) of the integrated SFY13 Work Plan. The requirement for NPDES permit, compliance monitoring data and enforcement data entry is required as part of the program approval and described in the MOA. ADEQ has been aware of the need for updated data transfer protocols since 2009 and has been working on it since then. EPA HQs has provided contract help to ADEQ with expert technical assistance, which the IT Department has used in their efforts to program systems for flowing

NPDES data to EPA's ICIS database. Despite this assistance, project completion deadlines have continually slipped. The initial project completion date of June 30, 2013 is long past, with no anticipated actual completion by that date, despite being reportedly 95% complete since the week of August 9.

EPA has not been able to effectively oversee the SFY13 workplan progress, nor is it able to effectively oversee the current SFY14 workplan progress. Additionally in early FFY14, EPA will be conducting the AZ State Review Framework, an enforcement-led multi-media evaluation of compliance, using FFY13 data. Without the necessary data in ICIS, EPA will be unable to effectively conduct the review, which will result in a poor rating for ADEQ.

Safe Drinking Water Act

Public Water Supply Supervision: See separate review.

Source Water Protection

The Drinking Water Monitoring and Protection Unit manages AZ's efforts to prevent contamination of ground and surface sources of drinking water. For SFY13 Arizona continued to successfully implement their source water protection priorities: (1) evaluate most-threatening contaminant risks to drinking water sources (2) conduct public outreach/education to promote source water protection; and (3) improve the original source water assessments. In the past year, the Drinking Water Monitoring and Protection Unit continued to work closely with ADEQ's Waste Division to review UST/LUST data to target sites that potentially threaten drinking water sources. For their education tasks, they focused on five schools that own/operate a public water system to complete source water protection plans. ADEQ also worked with several other schools to develop site assessments. For public outreach, ADEQ conducted ten workshops and outreach events to inspire source water protection at the local level. ADEQ helped the City of Holbrook develop a source water protection plan and the City of Wickenburg update their wellhead protection plan. To improve the original statewide assessment, ADEQ continued to update/evaluate well location data and the database of potential contaminating activities. They began querying databases to identify community water systems with a single source of drinking water; these are more vulnerable than systems with multiple sources.

Despite their robust program, ADEQ did not meet their SFY13 target of assisting three community water systems achieve minimized risk to public health by source water protection. ADEQ states, however, that the actual numbers achieved rely on the willingness and ability of public water systems to participate in the voluntary source water protection program. They have accordingly lowered their SFY14 target to one system, reflecting the obstacles to protection. ADEQ expects to continue to fully implement their protection efforts next year to meet and perhaps exceed the SFY14 target.

Ground Water Program

The Ground Water Section of ADEQ is responsible for implementation of the Aquifer Protection Permit (APP) Program. EPA's Ground Water Office (GWO) works with ADEQ's APP Program to share information for separate underground injection permitting programs that regulate injection activities in Arizona. EPA and ADEQ coordinate on injection activities requiring both a

federal UIC permit and a state APP which have groundwater related issues and concerns. The permitting application requirements and process of the UIC and APP programs are similar, but separately implemented by EPA and ADEQ, respectively. Sharing of information and regular updates allow us to work out any inconsistencies and coordinate, where appropriate. ADEQ also shares information on their reviews of these recharge projects to ensure that the injection of treated wastewater meets our UIC requirements for Class V injection wells.

In SFY13, we worked with ADEQ on the Morton Salt facility and the proposed Florence Copper Production Test Facility (PTF). The proposed PTF is under consideration for a federal UIC permit and is a highly opposed project by the Town of Florence. Working with ADEQ has been very successful during this grant period and useful to help meet our goal to protect underground sources of drinking water (USDW) as defined under the Safe Drinking Water Act.

In addition to coordinating on permitting projects, ADEQ provides updates of its extensive drywell (Class V injection wells) database for EPA's national UIC database. Arizona regulations require that any person who owns an existing or proposed drywell in the State must register the drywell with ADEQ. EPA also requires owners/operators of injection wells which are authorized by rule (i.e., drywells or any other Class V injection well) to submit inventory information. The drywell update from ADEQ ensures that our UIC database is up-to-date for this type of well.

The key ongoing focus area in SFY14 for the Ground Water Program will be continued coordination between ADEQ and EPA on the proposed Florence Copper Project. ADEQ's APP permit for this site was issued, and is currently under state appeal. EPA is still evaluating the project for a Class III UIC permit. Florence Copper requires both permits to be in place in order to proceed with their copper mining Production Test Facility.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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MAR 0 6 2014

Michael Fulton
Director
Water Quality Division
Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007-2809

RE: FY13 End of Year Evaluation

Dear Mike:

Enclosed is our evaluation of the ADEQ's SFY13 implementation of Clean Water Act and Safe Drinking Water Act programs as described in the Integrated Workplan. The evaluation is based on commitments in the workplan, report submittals and information gathered during ongoing program conference calls. ADEQ's program implementation continues to be effective and dynamic; and our partnership continues to be productive.

As we briefly discussed in our call on January14th and February 20th, data management commitments continue to be a concern. The two specific areas are water quality data entry into STORET and compliance monitoring data entry into ICIS-NPDES, EPA's national databases which provide for public access to data.

STORET
EPA's monitoring grant includes a condition which requires all state generated water quality data be entered into STORET. There are significant gaps in data entry (since 2005) and it is our understanding ADEQ has struggled with data transfer from the state system to the federal system due to various IT issues.

ICIS
The SFY13 and SFY14 Integrated Workplan and NPDES Memorandum of Agreement dated December 05, 2002, between the State of Arizona and US EPA Region 9 (Para III.A.7) require timely entry of compliance monitoring and enforcement data into EPA's national database, ICIS. The workplan specifies Discharge Monitoring Report (DMR) data entry within 20 days of receipt, and permit, inspection and enforcement data entry within 30 days. ADEQ intends to accomplish ICIS data entry by sending, or flowing, data from its AZURITE and ICE databases into ICIS. ADEQ has been unable to flow data into ICIS since November 2012, which has compromised EPA's ability to monitor and evaluate program performance and provide public access to information. ADEQ did not meet its workplan commitments for Task 1.4.3) for FY13 and the data issue has continued into FY14. EPA has provided contractual and technical support to ADEQ for establishing data flow protocols. Despite this assistance, project completion deadlines have continually slipped, from an initial projection of June 30, 2013. We are still awaiting completion.

In mid-FFY14, EPA will be conducting the AZ State Review Framework (SRF), an enforcement-led multi-media evaluation of ADEQ's compliance and enforcement programs, using FFY13 data.. This review will be conducted using the data in ICIS as of February 14, 2014, EPA's data "freeze date". Incomplete data in ICIS will impact ADEQ's rating for the SRF. ADEQ was able to flow approximately 90% of its DMR data to ICIS prior to the SRF data freeze. However, ADEQ was not able to send its inspection and enforcement data to ICIS prior to the freeze date.

Please provide a written response by March 28, 2014 which describes the plan and timeline for resolving the data issues. The proposed plan should be discussed with EPA during the upcoming SFY14 midyear program discussions and SFY15 grant negotiations. As appropriate, EPA expects specific actions to be incorporated into the workplan(s).

Please do not hesitate to contact either of us to discuss the evaluation or the specific concerns raised.

Sincerely,

Jane Diamond
Director, Water Division

Kathleen Johnson
Director, Enforcement Division

Enclosures (2)

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.4	**TASK: Surface Water Program Development** Perform support activities for surface water program including development of program procedures and policies. **DELIVERABLES:**		
PPG	1) Finalize implementation procedures for anti-degradation, biocriteria, bottom deposits and fish consumption. a) antidegradation i) Initiate public process ii) Finalize implementation procedures b) biocriteria i) Initiate public process ii) Finalize implementation procedures c) bottom deposits i) Initiate public process ii) Finalize implementation procedures d) Fish consumption i) Initiate public process ii) Finalize implementation procedures	T = ai) **2/13** **Comment** aii) **12/13** bi) 9/12 **A = 9/12** bii) 3/13 **Comment** ci) 9/12 **A = 9/12** cii) 3/13 **Comment** di) **12/13** **Comment** dii) **6/14**	Surface Water
PPG	2) Initiate triennial review. a) Submit request for rulemaking exception* b) Begin stakeholder outreach c) Complete triennial review	T = a) **11/12** **A = 12/12** b) **2/13** **Comment** c) **1/14**	Surface Water
PPG	3) Revisit Lakes Narrative Nutrient Standards a) Complete literature and data review, update data analysis, and refine matrix relationships b) Determine if current matrix approach requires modification.	T = **Comment** a) 11/12 b) 12/12	Surface Water

*Contingent upon Governor's approval.

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.4	**TASK: Surface Water Program Development (Cont'd)** **DELIVERABLES:**		

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	1.00	5,620
PPG	11.00	46,510
TOTAL	12.00	52,130

The biocriteria and bottom deposits were public noticed in September and comments were received. ADEQ met with the commenters, made revisions and prepared a response to comments. The documents are in final review. The fish consumption and antidegradation procedures have not gone to public comment.

ADEQ has not received an exception from the rule making moratorium. Therefore, the stakeholder outreach for the triennial review has not been initiated.

The contract for deliverable 3a was extended to September, 2013.

FY 13 4TH QTR. FINAL OUTPUT REPORT

GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.5	**TASK: Ambient Monitoring Program** Conduct ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants. Monitoring to include targeted characterization, planning and/or probabilistic sites in support of 305(b) assessment process. **DELIVERABLES:**		
PPG	1) Ambient stream monitoring a) Conduct ambient stream and lake monitoring per FY 13 sampling and analysis plan throughout Arizona. b) Prepare FY 14 sampling and analysis plan for rivers and streams.	T = a) Quarterly **A = 4** b) 5/13 **A = 4/13**	Surface Water
106 Mon-2 106 Mon-3	2) Fish tissue and sediment sampling program a) Conduct fish tissue and sediment sampling on Arizona lakes and reservoirs for presence of mercury to support fish consumption advisory programs per FY13 sampling plan. b) Prepare FY 14 sampling plan for fish tissue monitoring.	T = a) Quarterly **A = 4** b) 2/13 **A = 1/29/13**	Surface Water
	3) Complete groundwater basins reports for: a) Butler Valley b) Aravaipa Canyon c) Upper Hassayampa	T = a) 1/13 **A = 11/12** b) 6/13 **A = 4/13** c) 6/13 **Comment**	Surface Water

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.5	**TASK: Ambient Monitoring Program (Cont'd)** **DELIVERABLES:**		

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW)	1.00	3,379
WIFA Fees (CW) NPS PA I [Match]	23.00	95,579
WQARF	2.00	6,758
WQARF NPS PA I [Match]	14.00	48,594
PPG	21.40	75,582
106 Monitoring-3	10.00	35,378
106 Monitoring-2	7.00	26,912
TOTAL	78.40	292,182

One hundred eighty-six surface water samples were collected during FY 13. Forty-three sites were sampled quarterly at primarily warm water sites (>5,000 feet) throughout Arizona. Twenty-five of the 43 sites were randomly selected for a state-wide probabilistic assessment. An additional 25 random sites will be selected at cold water sites in FY 14.

Seventy-three groundwater samples were collected during FY 13 in the Tonto, Gila and Harquahala basins. Reports were completed for the Butler and Aravaipa Valley basins. Deliverable 3c is off target so staff could collect additional gw samples this year; the report is draft and in management review.

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GOAL #2: Protecting America's Waters **Program #4500: Surface Water Regulation**
Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.6	**TASK: 106 Monitoring** Monitoring Initiative (MI) program for implementation of AZ approved comprehensive monitoring strategy. **DELIVERABLES:**		
106 Mon-3	1) Physical integrity a) Evaluate the effectiveness of using relative bed stability as a physical integrity tool by stream type. i) Select contractor and finalize contract ii) Submit draft report to EPA. iii) Submit final report to EPA	T = i) 6/12 **A = 12/12** ii) 6/13 **Comment** iii) 6/14	Surface Water
106 Mon-3	2) Intermittent streams a) Conduct intermittent stream monitoring according to the sampling and analysis plan. b) Complete the final report summarizing the results of the intermittent stream sampling and evaluating the effectiveness of using the perennial IBI on intermittent streams to develop intermittent stream biocriteria for water quality standards. Send final report to EPA.	T = a) 6/13 **Comment** b) 11/13	Surface Water
106 Mon-3	3) Conduct nutrient monitoring for Rivers and Streams per FY13 sampling and analysis plan.	T = Quarterly **A = 4**	Surface Water
106 Mon-2	4) Effluent dependent waters a) Conduct monitoring according to SAP for effluent dependent waters.	T = a) 6/13 **A = 6/13**	Surface Water
	5) Participate in the 2013 and 2014 National River and Stream Survey. a) Conduct field work for all wadeable sites.	T = **Comment** a) 10/14	Surface Water

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.6	**TASK: 106 Monitoring (Cont'd)** **DELIVERABLES:**		

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW)	5.00	22,000
106 Monitoring-3	11.00	40,129
106 Monitoring-2	2.00	7,274
TOTAL	18.00	69,403

Deliverable #1: Contracts were completed for Physical Integrity and Intermittent stream projects. Natural Channel Design was selected as the contractor for the Physical Integrity project and is currently sampling approximately 30 sites to assess Relative Bed Stability as a new standard.

Deliverable #2: Ecoanalyst was selected as the contractor for the Intermittent Stream Project. Ecoanalyst is analyzing existing intermittent stream data to evaluate new metrics for the development of an intermittent Index of Biological Integrity.

Deliverable #4: Sampling was completed at 2 EDW sites in FY 13. The Santa Cruz River and Sonoita Creek were each sampled quarterly.

Deliverable 5: Nine National River and Stream Assessment (NRSA) sites were sampled to date. The remaining NRSA sites will be sampled in FY 14.

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.7	**TASK: Water Quality Assessment** Develop Integrated Report and list of impaired waters. **DELIVERABLES:**		
NPS XIII PPG	1) **Submit final 2010 305(b) Integrated Report and 303(d) List submittal to EPA. (NPS Strategy 3.A.1)**	T = **10/12** **A = 10/12**	Surface Water
	2) Final 2012 305(b) Integrated Report and 303(d) List submittal to EPA. (NPS Strategy 3.A.1)	T = **2/13** **Comment**	Surface Water
	3) Complete external data collection and integration for 2014 Assessment. (NPS Strategy 3.A.2)	T = 6/13 **A = 6/13**	Surface Water
	4) Identify list of waters that were either delisted in 2012 305(b) Assessment or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated. (NPS Strategy 3.A.1 and NPS Strategy 4.A.1)	T = 2/13 **A = 12/12**	Surface Water
	5) Develop SP-12 success stories, in addition to Alum Gulch and Turkey Creek, from candidate list. (NPS Strategy 4.B.1)	T = 6/13 **A = 6/13**	

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	7.00	30,087
PPG	14.00	56,359
NPS XIII	3.00	10,137
TOTAL	24.00	96,583

Deliverable #1: EPA's action on the 2010 303(d) List was not completed until June 2013. As a result, the draft 2012 Assessment and 303(d) List were not moved toward the public review process as anticipated. Due to the delays in finalizing the 2010 Assessment, EPA and ADEQ agreed to combine the 2012 and 2014 Assessments. The draft 2012/14 Assessment will be updated based upon EPA's final action on the 2010 303(d) List and moved to public comment. An appeal on the Pinto Creek 4A listing has yet to be resolved but we anticipate moving to initiate the public comment period for the 2012/14 Integrated Report in FY14 Q1.

Deliverable #2: A call for external data went out in April; to date we have received data from two sources. The largest outstanding data set is from the USGS. We will be requesting their ADEQ contract data along with USGS statewide data in FY14 Q1. Historically, data was provided in two separate files but will be combined and uploaded on an annual basis. We will be directly contacting previous data sources to solicit additional data.

Deliverable #5: Success stories were drafted for Alum Gulch, Pinto Creek and Turkey Creek. EPA NPS reviewed the Turkey Creek success story and provided comments. The remaining drafts will be revised based on EPA's comments. Future success stories will be developed from the "Master Target List" that the TMDL and WQIG programs developed to track the 2014-2018

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ADEQ Strategic Plan WQD performance measure of "improving water quality on 50% of the monitoring streams over five years".

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.8	**TASK: TMDL Development and Implementation** **Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented.** **DELIVERABLES:**		
NPS PA I NPS XIII	1) TMDL Reports a) Submit **4** TMDL reports to EPA for final approval by June 2013. b) Complete 1st (30 day) public notice for **3** additional TMDLs by June 2013. (NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates	Surface Water
PPG NPS PA I	2) Continue data collection and analysis for TMDL development. Target is **32** TMDLs on **24** waterbody segments; see Continued TMDL Development Status Table. (NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates	Surface Water
NPS PA I	3) Develop TMDL implementation plans. Target is to complete 5 implementation plans; see Develop Implementation Plans Status Table.(NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates	Surface Water
PPG	4) Conduct effectiveness monitoring. Target is to monitor the remedial activities on three Measure W waterbodies **plus three other waterbodies**; see Effectiveness Monitoring Status Table. (NPS Strategy 4.A.1)	T = Semi-Annual Status Table Updates	Surface Water
	5) Provide quarterly updates to TMDL project tables with description of work completed and updates to specific milestones for projects to be completed by June **30**, 2013.	T = Quarterly Updates to TMDL Project Tables	

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.8	**TASK: TMDL Development and Implementation (Cont'd)** **DELIVERABLES:**		
	6) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3c).	T = Monthly TMDL Conference Calls	Surface Water
PPG	7) EPA funded Santa Cruz TMDL Project a) Evaluate feasibility and approach to development of the Santa Cruz TMDL b) Support development, review and approval of products for the Santa Cruz TMDL	T = a) 9/12 **A = 9/12** b) 6/13 **A = 6/13**	Surface Water SRO

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	3.00	7,031
WQARF NPS PA I [Match]	4.00	13,516
PPG	25.00	109,612
NPS PA I	21.00	78,518
NPS XIII	20.00	82,387
TOTAL	73.00	291,064

Deliverable #1: The Gila River SSC TMDLs (2) were submitted to EPA R9 and approved in April. The two Little Colorado River *E. coli* TMDLs were submitted for approval in June. The 30-day public comment period and 45-day AAR public notice were completed for the San Pedro River *E. coli* TMDL which will be submitted for approval in FY14 Q1. A 30-day comment period for the Alamo Lake Mercury TMDL occurred at the end of 2012.

Deliverable #2/7b: In addition to participating with EPA and their contractor on the Santa Cruz project, ADEQ continued TMDL data collection and analysis on 27 TMDLs for 19 waterbody segments. Activities included data collection and analysis of water, sediment and fish tissue samples, equipment installation and maintenance, contractor oversight and document review, and interacting with stakeholders.

Although not included on the FY13 workplan, we also began a sampling program within the upper Big Bug Creek watershed. The USFS completed an EE/CA for several mines in the watershed but lacked any supporting water quality data. ADEQ will collect data to quantify the baseline conditions prior to remediation of the mines followed by post remediation effectiveness monitoring. It is anticipated that this project will result in the development of an abbreviated TMDL (TMDL lite) that will inform USFS management decisions.

Deliverable #3: Generalized TMDL Implementation plans were included with the Gila River SSC, San Pedro *E. coli* and LCR *E. coli* and SSC TMDLs. Although the TIPs contained no specific projects we have continued to pursue opportunities to develop

more specific implementation plans with local stakeholders. We have been in contact with the new watershed group that was formed in the lower San Pedro and have had discussions with the upper Gila Watershed group about building upon the sediment control structure project they have been working on. The Lake Mary TIP has been revised and reviewed by lower management; however, it will be reevaluated for its effectiveness in improving mercury levels in fish. The upper Gila and Silver Creek (major tributary to the LCR) watersheds are being considered for pilot projects to test our new Water Quality Improvement Plan development. This combined TMDL/Implementation approach was a major recommendation that came from our Kaizen event held in April.

Deliverable #4: Effectiveness monitoring samples were collected from Turkey Creek, Pinto Creek and Tonto and Christopher Creeks. Intensive summer recreational season sampling was initiated in May for Tonto and Christopher Creeks. The nutrient TMDL was calculated using monthly averages from a minimum of two sampling events for each month. Previously collected effectiveness monitoring data did not meet this threshold making data comparisons difficult. Two sampling events per month will be conducted through September 2013. Significant time was spent on the Boulder Creek Lower Tailings Pile project but the project in moving forward with a target construction date of March 2014. The USFS has begun the EE/CA process for several mines located within the Pinto Creek watershed. TMDL staff toured the watershed with USFS staff and their contractor and provided data. Once projects are implemented on USFS lands effectiveness monitoring will begin.

Deliverable #5: Constructive communication between EPA R9 and ADEQ occurred on a regular basis throughout the fiscal year. As the ADEQ NPS/319 and TMDL programs became more aligned so did the EPA regional programs. This coordinated effort resulted in the scheduling of a combined program call, rather than two separate calls.

Deliverable 7b: On April 24, staff supported FOSCR with surface water sampling and delivery to a Tucson laboratory in support of volunteer monitoring on the Santa Cruz River. Background materials to support the development for a TMDL for the Santa Cruz River were prepared for the EPA. Staff helped develop a database for EPA and the Arizona Mexico Commission reflecting data collected by multiple stakeholders on the Santa Cruz River in support of proposed TMDL activities.

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TMDL Projects Quarterly Status
1.3.8 TMDL Development – Project Completion by June 2013

Segment (impairment)	Milestone (target)	Actual/Comments
Gila River- New Mexico Border to Bitter Creek (SSC)	Submit draft TMDL to EPA (9/30/12)	Q1-Emailed EPA link to draft on 10/1/12
	45-day AAR Notice Begins (9/30/12)	Q1-Published in AAR 9/28/12 Q2- AAR notice ended 11/13/12; comments received from FMI regarding WLA language
	Submit final to EPA (1/30/13)	Q3- TMDL was submitted to EPA for approval on 1/31/13 Q4- EPA approved TMDL Report April 2013
Gila River- Bonita Creek to Yuma Wash (SSC)	Submit draft TMDL to EPA (9/30/12)	Q1-Emailed EPA link to draft on 10/1/12
	45-day AAR Notice Begins (9/30/12)	Q1-Published in AAR 9/28/12 Q2- AAR notice ended 11/13/12; comments received from FMI regarding WLA language
	Submit final to EPA (1/30/13)	Q3- TMDL was submitted to EPA for approval on 1/31/13 Q4- EPA approved TMDL Report April 2013
San Pedro River- Aravaipa Creek to Gila River (*E. coli*)	Submit draft TMDL to EPA (9/30/12)	Q1-Emailed EPA link to draft on 9/17/12
	Public Meeting and Comment Period Begins (9/30/12)	Q1-Public meeting held 9/13, public comment period began 9/14/12 Q2-Public comment period ended 10/15. Comments received from EPA and BHP. Responses are under WQD management review.
	45-day AAR Notice Begins (11/30/12)	Q3- Draft TMDL published in AAR on 4/5/13, 45-day notice will conclude on 5/20/13
	Submit final to EPA (2/30/13)	Q4- Response to EPA AAR comments were drafted and circulated for review. TMDL will be submitted for approval in FY14 Q1.

Watson Lake (Nitrogen, low D.O., high pH)	Complete draft TMDLs (2/1/13)	Q1-Modeling report finalized; public meeting scheduled for 10/25/12 Q2- Public meeting and City Council briefing held 10/25/12. Q3- TMDL being drafted based upon modeling results. Public meeting and release of draft TMDL targeted for late Q4. Q4- ADEQ staff met with City of Prescott and their consultant on June 13 to discuss city's review of modeling report, limnocorral, and bathymetry studies.
	Public Comment Period Begins (4/1/13)	
Granite Creek- headwaters to Willow Creek (Low D.O., *E. coli*)	Complete draft TMDLs (2/1/13)	See Watson Lake above Q3- Subwatershed load calculations ongoing. Q4- Internal data summary/modeling report was drafted and reviewed by Jason
	Public Comment Period Begins (4/1/13)	
Miller Creek (*E. coli*)	Same schedule as Granite Creek TMDL	See Watson lake above Q3- Included in Granite Creek *E. coli* TMDL calculation. Q4- Included with Granite Creek data summary/modeling report
Alamo Lake (Hg in Fish Tissue)	Submit draft TMDL to EPA (10/1/12)	Q1- TMDL approved by WQD Management for 30-day public comment; sent to communications for proof.
	Public Comment Period will begin 11/28/12	Q2- Public comment period began 11/28/12, will end 1/31/13; draft sent to EPA 10/18/12.
	45-day AAR Notice Begins (1/1/13)	Q3- Responses to comments have been drafted but internal review has not been completed. This TMDL may be a candidate for an alternative approach (non-TMDL) given stakeholder concerns.
	Submit final to EPA (3/1/13)	Q4- TMDL calculations portion of report will be removed and the project will be completed as a data summary outlining the mercury reductions needed to meet fish tissue criteria. The data summary will be used to guide implementation at smaller watershed scales as opportunities arise

Lyman Lake (Hg in Fish Tissue)	Complete draft TMDL (5/1/13)	Q1- Opened new PO to finish modeling effort by 10/31/12. Draft report due 11/9. Contract ends 12/14. Q2- Final modeling report received 12/14/12. Q3- No action on project Q4- TMDL calculations portion of report will be removed and it will be completed as a data summary outlining the mercury reductions needed to meet fish tissue criteria
Parker Canyon Lake (Hg in Fish Tissue)	Submit draft TMDL to EPA (10/30/12)	Q1- Draft is complete, but loading numbers must be confirmed by NAU modeling contractor Q2- Loading numbers confirmed and draft being revised prior to routing through WQD management approval for 30-day public comment period. Q3- Unit manager completed review and returned to PM for revisions. Will forward to WQ Management in Q4. Q4- Draft TMDL was revised but will be completed as a data summary similar to the Alamo and Lyman Lakes projects
Little Colorado River-Silver Creek to Carr Wash (SSC)	Submit draft TMDL to EPA (10/30/12)	Q1- Draft TMDL approved by WQD management. Public meeting scheduled for 11/8/12. Public Comment period to start 11/9/12.
	Public Meeting and comment Period Begins (11/30/12)	Q2- 30-day public comment period began 11/9/12 and ended 12/7/12. Comments were received from EPA. Responses are under WQD management review.
	45-day AAR Notice Begins (1/30/13)	Q3- Draft TMDL published in AAR on 3/26/13, 45-day notice will conclude on 5/6/13.
	Submit final to EPA (4/30/13)	Q4- TMDL was submitted to EPA on June 18th

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Little Colorado River-Silver Creek to Carr Wash (*E. coli*)	Submit draft TMDL to EPA (10/30/12)	Q1- Draft TMDL approved by WQD management. Public meeting scheduled for 11/8/12. Public Comment period to start 11/9/12
	Public Meeting and comment Period Begins (11/30/12)	Q2- 30-day public comment period began 11/9/12 and ended 12/7/12. Comments were received from EPA. Responses are under WQD management review.
	45-day AAR Notice Begins (1/30/13)	Q3- Draft TMDL published in AAR on 3/26/13, 45-day notice will conclude on 5/6/13.
	Submit final to EPA (4/30/13)	Q4- TMDL was submitted to EPA on June 18th

1.3.8 TMDL Development- Continued TMDL Analysis and Development

Segment	Impairment	Comments
East Verde River- American Gulch to Verde River	As, B	Q1- Additional sampling event occurred in Q1 Q2- One additional sampling event took place; no exceedances were observed Q3- An auto sampler was installed to capture storm flow samples, additional baseflow samples were collected. Exceedances of arsenic have been observed in the data set. Q4- One additional low flow sample event took place, maintained autosampler
East Verde River- Ellison Creek to American Gulch	Se	Q1- see East Verde above Q2- see East Verde above Q3- No selenium exceedances have been measured during TMDL monitoring, this reach will be proposed for delisting, if no exceedances are seen through summer sampling Q4- One additional low flow sample event took place, maintained autosampler
Bear Canyon Lake	Low pH	Q1- No action on project as staff was participating in NLS Q2- No action Q3- No action on project Q4- No action on project
Rose Canyon Lake	Low pH	Q1- No action on project as staff was participating in NLS Q2- No action Q3- No action on project Q4- No action on project
Gila River- Centennial Wash to Gillespie Dam	Se, B	Q1- Additional fish were collected, processed and submitted for pesticides in July. Stormwater samples collected in August Q2- Fish tissue and water column results were mostly non-detect or below the action levels for pesticides. Awaiting tissue rerun results on toxaphene before finalizing summary report. Q3- Briefed Karin on results in March and discussed proposed delist for pesticides. An additional low flow sampling event occurred in February Q4- Began drafting pesticides delist report.

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		Additional low flow sampling event took place in May
Gila River – Coyote Wash to Fortuna Wash	Se, B	Q1- Installed automatic sampler at USGS gage near Wellton, collected stormwater samples Q2- Low flow sampling event took place in November. Q3- Additional low flow sampling event took place in February. Q4- Additional low flow sampling event took place in May
Alvord Lake	Ammonia	Q1- It is still a question whether City of Phoenix has a management plan Q2- No action Q3- No action of project Q4- No action on project
Cortez Lake	Low D.O., high pH	Q1- No Action Q2- No action Q3- No action of project Q4- No action on project
Chaparral Lake	Low D.O., *E. coli*	Q1- Data submitted by the City of Scottsdale; no exceedances noted in 2012 data Q2- No action, still awaiting sample location information from City of Scottsdale. Q3- No action of project Q4- No action on project
Queen Creek- headwaters to Superior WWTP	Cu, Pb	Q1- Draft model report received and reviewed in July. Contract renewed to update model based on ADEQ comments Q2- Contractor continued updating model and revising report. Final report will be submitted in January. Q3- Final modeling report submitted to ADEQ in February. Drafting of TMDL will begin in Q4 Q4- No action on project
Queen Creek- Superior WWTP to Potts Canyon	Cu	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Queen Creek- Potts Canyon to Whitlow Dam	Cu	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above

Arnett Creek- Headwaters to Queen Creek	Cu	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Unnamed Trib to Queen Creek (-991)	Cu	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Unnamed Trib to Queen Creek (-1843)	Cu	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Unnamed Trib to Queen Creek (-472)	Cu	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Pinto Creek- headwaters to Ripper Spring*	Cu	Q1- USFS hired contractor to develop PASI for six mines on USFS lands. Friars contractor met with APP to discuss engineering design for continued remediation at Gibson Mine. Q2- Q2- Construction activities began at Gibson Mine and are nearly complete. Post construction effectiveness monitoring will begin in Q3. Q3- Gibson cap construction and seeding was completed. USFS contractor conducted sampling activities in February Q4- Passive sampling supplies were ordered; will be installed FY14 Q1 in order to collect stormwater entering and exiting the Gibson mine site. No response was received on request to move forward with SSS rule making.
Pinto Creek- Ripper Spring to Roosevelt Lake*	Cu	Q1- see Pinto Creek above Q2- see Pinto Creek above Q3- see Pinto Creek above Q4- see Pinto Creek above
Haunted Canyon- Headwaters to Pinto Creek*	Cu	Q1- see Pinto Creek above Q2- see Pinto Creek above Q3- see Pinto Creek above Q4- see Pinto Creek above
Five Point Mountain- Headwaters to Pinto Creek*	Cu	Q1- see Pinto Creek above Q2- see Pinto Creek above Q3- see Pinto Creek above Q4- see Pinto Creek above

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Mule Gulch- headwaters to Above Lavender Pit*	Cu	Q1- No action Q2- No action, approach will be revisited in Q3 Q3- Staff began reviewing revised modeling report to determine TMDL approach Q4- Staff toured the watershed and developed a drafted possible approaches to completing the project
Mule Gulch- Above Lavender Pit to Bisbee WWTP*	Cu, pH	Q1- No action Q2- No action, approach will be revisited in Q3 Q3- Staff began reviewing revised modeling report to determine TMDL approach Q4- See Mule Gulch above
Mule Gulch- WWTP to Highway Bridge*	Cd, Cu, pH, Zn	Q1- No action Q2- No action, approach will be revisited in Q3 Q3- Staff began reviewing revised modeling report to determine TMDL approach Q4- See Mule Gulch above
Brewery Gulch- headwaters to Mule Gulch*	pH	Q1- No action Q2- No action, approach will be revisited in Q3- Staff began reviewing revised modeling report to determine TMDL approach Q4- See Mule Gulch above
Upper Santa Cruz TMDL Project – Nogales Wash, Portrero Creek and the Santa Cruz River	E.coli, ammonia, chlorine, dissolved oxygen	Q1-Participated in watershed overview webinar on 9/19. Provided WQ and GIS data to EPA contractor. Meet with EPA and local stakeholders 9/28 Q2- Additional discussions took place with Tetra Tech and EPA. Summary report due in January 2013. Q3- ADEQ reviewed and provided comments on the draft Santa Cruz Data Summary Report on 3/15/13 Q4- EPA contractor revised the report. ADEQ provided additional clarification on several comments

* continued site-specific standard development

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TMDL Projects Quarterly Status
1.3.8 TMDL Implementation – Effectiveness Monitoring

Segment	Impairment	Comments
Boulder Creek*	As, Cu, Zn	Q1-Discussions with EPA continued on funding the remediation of the Middle and Lower Tailings Pile. BLM continues its investigation of the Upper Tailings Pile. Q2- Met with ASLD and ADOA RM to discuss the project on 11/28/12. ADEQ is still waiting for firm commitment from sister agencies to proceed with project given cost recovery concerns. Q3- ASLD and ADOA confirmed support for moving forward with the project on 3/14/13 assuming EPS Superfund funding is still available for design work. ADOA will act as the state contracting agency Q4- TMDL staff collected a WQ sample from the adit during a compliance inspection on May 21st; results showed that arsenic and zinc exceed WQ standards.
Pinto Creek*	Cu	Q1-USFS hired contractor to develop PASI for mines on USFS lands. Friars contractor met with APP to discuss engineering design. Q2- Construction activities began at Gibson Mine and are nearly complete. Post construction effectiveness monitoring will begin in Q3. Q3- One sample was collected by the Friar's contractor in February. Passive sampling equipment will be installed in Q4. Q4- No additional samples were collected. Passive supplies were received by ADEQ and will be installed in FY14 Q1.

Turkey Creek*	Cu, Pb	Q1-Post fire samples collected in July from 2 sites along Turkey Creek. Q2- No additional sampling occurred. Q3- Insufficient precipitation occurred to produce runoff Q4- No additional samples were collected. Success story was revised based on comments received from EPA
Tonto and Christopher Creeks	Nitrogen and *E. Coli*	Q1-Data analysis continued Q2- No action Q3- Sample planning for the summer season took place. 2X monthly sampling will occur starting in May and continuing through September. Q4- Initiated summer sampling program in May; 12 sites will be sampled every other week through Septemeber.
Little Colorado River	Turbidity	Q1-No action Q2- No action Q3- TMDL supervisor presented information to a Master Watershed Steward class on March 27th. Q4- NRCS selected Coyote Creek (tributary to LCR) as a NWQI watershed.

* Measure W watersheds

1.3.8 TMDL Implementation – Develop Implementation Plans

Segment	Comments
San Pedro River (1 TIP)	Q1- Public Meeting held 9/13; there was not much support for implementing projects Q2- TIP included in TMDL, no comments were received regarding the TIP during public comment period which ended 10/15/12. Q3- No additional TIP activity, will be included with TMDL submittal in Q4 Q4- No comments were received on TIP during AAR public notice
Alamo Lake (1 TIP)	Q1- No TIP activity Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Lyman Lake (1 TIP)	Q1- No TIP activity Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Parker Canyon Lake (1 TIP)	Q1- No TIP activity Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Little Colorado River (2 TIPs- one for SSC and *E. coli* each)	Q1- TMDL public meeting will be held 11/8; potential implementation and funding will be discussed Q2- Public Meeting held 11/8/12. Public comment period began 11/9/12 and ended 12/7/12, no comments were received regarding implementation. Q3- No TIP activity will be included with TMDL submittal in Q4 Q4- Submitted with LCR SSC and *E. coli* TMDL
Alvord Lake (1 TIP)	Q1- On hold- City of Phoenix may have a lake management plan Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Cortez Lake (1 TIP)	Q1- On hold Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Chaparral Lake (1 TIP)	Q1- On hold- City of Scottsdale may have a lake management plan Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Queen Creek (multiple reaches, 1 TIP)	Q1- No TIP activity

	Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Pinto Creek (multiple reaches, 1 TIP)	Q1- No TIP activity Q2- No TIP activity Q3- No TIP activity Q4- No TIP activity
Lake Mary Regional (multiple lakes 1 TIP)	Q1- Draft received and reviewed, will be revised in Q2 Q2- TIP revised and expanded, under review Q3- No additional activity Q4- TMDL Unit Manager reviewed TIP
Gila River SSC (1 TIP)	Q1-TMDL submitted to AAR on 9/28 Q2- No comments regarding the TIP were submitted during the AAR Q3- TIP submitted with TMDL for EPA approval Q4- No TIP activity

* continued site-specific standard development

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COMPLIANCE SECTION

WATER QUALITY PROGRAM & PLANNING

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.4	**TASK: Surface Water Program Development** Perform support activities for surface water program including development of program procedures and policies. **DELIVERABLES:**		
PPG	1) Finalize implementation procedures for anti-degradation, biocriteria, bottom deposits and fish consumption. a) antidegradation i) Initiate public process ii) Finalize implementation procedures b) biocriteria i) Initiate public process ii) Finalize implementation procedures c) bottom deposits i) Initiate public process ii) Finalize implementation procedures d) Fish consumption i) Initiate public process ii) Finalize implementation procedures	T = ai) 7/12 aii) 12/12 bi) 9/12 bii) 3/13 ci) 9/12 cii) 3/13 di) 5/12 dii) 11/12	Surface Water
PPG	2) Initiate triennial review. a) Submit request for rulemaking exception* b) Begin stakeholder outreach c) Complete triennial review	T = a) 4/12 b) 7/12 c) 6/13	Surface Water
PPG	3) Revisit Lakes Narrative Nutrient Standards a) Complete literature and data review, update data analysis, and refine matrix relationships b) Determine if current matrix approach requires modification.	T = a) 11/12 b) 12/12	Surface Water

*Contingent upon Governor's approval.

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	1.00	5,620
PPG	11.00	46,510
TOTAL	12.00	52,130

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.5	**TASK: Ambient Monitoring Program** Conduct ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants. Monitoring to include targeted characterization, planning and/or probabilistic sites in support of 305(b) assessment process. **DELIVERABLES:**		
PPG	1) Ambient stream monitoring a) Conduct ambient stream and lake monitoring per FY 13 sampling and analysis plan throughout Arizona. b) Prepare FY 14 sampling and analysis plan for rivers and streams.	T = a) Quarterly b) 5/13	Surface Water
106 Mon-2 106 Mon-3	2) Fish tissue and sediment sampling program a) Conduct fish tissue and sediment sampling on Arizona lakes and reservoirs for presence of mercury to support fish consumption advisory programs per FY13 sampling plan. b) Prepare FY 14 sampling plan for fish tissue monitoring.	T = a) Quarterly b) 2/13	Surface Water
	3) Enter ambient water quality data (tissue and sediment data included) into Water Quality Exchange (WQE).	T = Quarterly	Surface Water
	4) Complete groundwater basins reports for: a) Butler Valley b) Aravaipa Canyon c) Upper Hassayampa	T = a) 1/13 b) 6/13 c) 6/13	Surface Water

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW)	1.00	3,379
WIFA Fees (CW) NPS PA I [Match]	23.00	95,579
WQARF	2.00	6,758
WQARF NPS PA I [Match]	14.00	48,594
PPG	21.40	75,582
106 Monitoring-3	10.00	35,378
106 Monitoring-2	7.00	26,912
TOTAL	78.40	292,182

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.6	**TASK: 106 Monitoring** Monitoring Initiative (MI) program for implementation of AZ approved comprehensive monitoring strategy. **DELIVERABLES:**		
106 Mon-3	1) Physical integrity a) Evaluate the effectiveness of using relative bed stability as a physical integrity tool by stream type. i) Select contractor and finalize contract ii) Submit draft report to EPA. iii) Submit final report to EPA	T = i) 6/12 ii) 6/13 iii) 6/14	Surface Water
106 Mon-3	2) Intermittent streams a) Conduct intermittent stream monitoring according to the sampling and analysis plan. b) Complete the final report summarizing the results of the intermittent stream sampling and evaluating the effectiveness of using the perennial IBI on intermittent streams to develop intermittent stream biocriteria for water quality standards. Send final report to EPA.	T = a) 6/13 b) 11/13	Surface Water
106 Mon-3	3) Conduct nutrient monitoring for Rivers and Streams per FY13 sampling and analysis plan.	T = Quarterly	Surface Water
106 Mon-2	4) Effluent dependent waters a) Conduct monitoring according to SAP for effluent dependent waters.	T = a) 6/13	Surface Water
	5) Participate in the 2013 and 2014 National River and Stream Survey. a) Conduct field work for all wadeable sites.	T = a) 10/14	Surface Water

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW)	5.00	22,000
106 Monitoring-3	11.00	40,129
106 Monitoring-2	2.00	7,274
TOTAL	18.00	69,403

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.7	**TASK: Water Quality Assessment** Develop biennial Integrated Report and list of impaired waters. Evaluate data in target watersheds for possible SP12 success stories. **DELIVERABLES:**		
NPS XIII PPG	1) Final 2012 305(b) Integrated Report and 303(d) List submittal to EPA. NPS Strategy 3.A.1	T = 12/12	Surface Water
	2) Complete external data collection and integration for 2014 Assessment. NPS Strategy 3.A.2	T = 6/13	Surface Water
	3) Identify list of water that were either delisted in 2012 305(b) Assessment or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated. NPS Strategy 3.A.1 and NPS Strategy 4.A.1	T = 2/13	Surface Water
	4) Develop SP-12 success stories, in addition to Alum Gulch and Turkey Creek, from candidate list. NPS Strategy 4.B.1	T = 6/13	Surface Water

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	7.00	30,087
PPG	14.00	56,359
NPS XIII	3.00	10,137
TOTAL	24.00	96,583

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GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.8	**TASK: TMDL Development and Implementation** Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented. Provide quarterly updates to TMDL Project Milestone table with description of work completed and updates to specific milestones and target dates for individual TMDL development. Perform reconnaissance monitoring, hydrologic survey and assist in TMDL and groundwater quality investigations for sites located in the border region as assigned. Investigations may include the need to photodocument conditions, collect field notes, conduct water quality sampling and data management, and/or file preliminary reports on findings. **DELIVERABLES:**		
NPS PA I NPS XIII	1) TMDL Reports a) Submit 6 TMDL reports to EPA for final approval by June 2013. b) Complete 1st (30 day) public notice for 5 additional TMDLs by June 2013. NPS Strategy 3.B.3	T = Semi-Annual Status Table Updates	Surface Water
PPG NPS PA I	2) Continue data collection and analysis for TMDL development. Target is 29 TMDLs on 21 waterbody segments; see Continued TMDL Development Status Table. NPS Strategy 3.B.3	T = Semi-Annual Status Table Updates	Surface Water
NPS PA I	3) Develop TMDL implementation plans. Target is to complete 5 of 9 implementation plans; see Develop Implementation Plans Status Table. NPS Strategy 3.B.3	T = Semi-Annual Status Table Updates	Surface Water
PPG	4) Conduct effectiveness monitoring. Target is to monitor the remedial activities on three Measure W waterbodies; see Effectiveness Monitoring Status Table. NPS Strategy 4.A.1	T = Semi-Annual Status Table Updates	Surface Water
	5) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3)c).	T = Monthly TMDL Conference Calls	Surface Water

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.8	**TASK: TMDL Development and Implementation (Cont'd)** **DELIVERABLES:**		
PPG	6) Provide quarterly updates to TMDL Project Milestone Table with description of work completed and updates to specific milestones and target dates for individual TMDL development.	T = Quarterly Updates to TMDL Project Milestone Table	Surface Water
PPG	7) EPA funded Santa Cruz TMDL Project a) Evaluate feasibility and approach to development of the Santa Cruz TMDL b) Support development, review and approval of products for the Santa Cruz TMDL	T = a) 9/12 b) 6/13	Surface Water

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	3.00	7,031
WQARF NPS PA I [Match]	4.00	13,516
PPG	25.00	109,612
NPS PA I	21.00	78,518
NPS XIII	20.00	82,387
TOTAL	73.00	291,064

TMDL Projects Quarterly Status
1.3.8 TMDL Development

Segment	Impairment	Project Manager	Comments
San Pedro River – Aravaipa Creek to Gila River	*E. coli*	dm4	
Watson Lake	Nitrogen, low D.O., high pH	stf	
Granite Creek – headwaters to Willow Creek	Low D.O.	stf	
Miller Creek	*E. coli*	stf	
Alamo Lake	Hg in Fish Tissue	stf	
Lyman Lake	Hg in Fish Tissue	ds12	
Parker Canyon Lake	Hg in Fish Tissue	stf	
Little Colorado River – Silver Creek to Carr Wash	*E. coli,* SSC	dm4	
Alvord Lake	Ammonia	ds12	
Cortez Lake	Low D.O., high pH	ds12	
Chaparral Lake	Low D.O., *E. coli*	ds12	

1.3.8 TMDL Development- Continued Monitoring and Site Specific Standard Development

Segment	Impairment	Project Manager	Comments
East Verde River- American Gulch to Verde River	As, B	kwp	
East Verde River- Ellison Creek to American Gulch	Se	kwp	
Bear Canyon Lake	High pH	stf	
Rose Canyon Lake	Low pH	ds12	
Gila River- Centennial Wash to Gillespie Dam	Se, B	kwp	
Gila River – Coyote Wash to Fortuna Wash	Se, B	dm4	
Queen Creek – headwaters to Superior WWTP	Cu	kwp	
Queen Creek – Superior WWTP to Potts Canyon	Cu	kwp	
Queen Creek – Potts Canyon to Whitlow Dam	Cu	kwp	
Arnett Creek – headwaters to Queen Creek	Cu	kwp	
Unnamed trib to Queen Creek (-991)	Cu	kwp	
Unnamed trib to Queen Creek (-1843)	Cu	kwp	
Unnamed trib to Queen Creek (-472)	Cu	kwp	
Pinto Creek – headwaters to Ripper Spring*	Cu	js9	
Pinto Creek – Ripper Spring to Roosevelt Lake*	Cu	js9	
Haunted Canyon – headwaters to Pinto Creek*	Cu	js9	
Five Point Mountain – headwaters to Pinto Creek*	Cu	js9	
Mule Gulch – headwaters to Above Lavender Pit*	Cu	js9	
Mule Gulch- Above Lavender Pit to Bisbee WWTP*	Cu, pH	js9	
Mule Gulch- WWTP to Highway Bridge*	Cd, Cu, pH, Zn	js9	
Brewery Gulch- headwaters to Mule Gulch*	pH	js9	
Upper Santa Cruz TMDL Project – Nogales Wash, Protero Creek and the Santa Cruz River	E.coli, ammonia, chlorine, dissolved oxygen	js9	

* continued site-specific standard development

TMDL Projects Quarterly Status

1.3.8 TMDL Implementation – Effectiveness Monitoring

Segment	Impairment	Project Manager	Comments
Boulder Creek*	As, Cu, Zn	sd4	
Pinto Creek*	Cu	sd4	
Turkey Creek*	Cu, Pb	sd4	
Tonto and Christopher Creeks	Nitrogen and *E. Coli*	sd4	
Little Colorado River	Turbidity	sd4	

* Measure W watersheds

1.3.8 TMDL Implementation – Develop Implementation Plans

Segment	Project Manager	Comments
Cortez Lake (1 TIP)	ds12	
Chaparral Lake (1 TIP)	ds12	
Alvord Lake (1 TIP)	ds12	
Queen Creek (Multiple reaches, 1 TIP)	kwp	
Pinto Creek (Multiple reaches, 1 TIP)	js9	
Alamo Lake (1 TIP)	stf	
Little Colorado River (2 TIPs; one for SSC and E. coli each)	dm4	
Parker Canyon Lake (1 TIP)	stf	
Lyman Lake (1 TIP)	ds12	
San Pedro River (1 TIP)	dm4	
Lake Mary Regional (multiple lakes; 1 TIP)	stf	

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WATER QUALITY PROGRAM & PLANNING

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.4	**TASK: Surface Water Program Development** Perform support activities for surface water program including development of program procedures and policies. **DELIVERABLES:**		
PPG	1) Finalize implementation procedures for anti-degradation, biocriteria, bottom deposits and fish consumption. a) antidegradation i) Initiate public process ii) Finalize implementation procedures b) biocriteria i) Initiate public process ii) Finalize implementation procedures c) bottom deposits i) Initiate public process ii) Finalize implementation procedures d) Fish consumption i) Initiate public process ii) Finalize implementation procedures	T = ai) **2/13** aii) **12/13** bi) 9/12 bii) 3/13 ci) 9/12 cii) 3/13 di) **12/13** dii) **6/14**	Surface Water
PPG	2) Initiate triennial review. a) Submit request for rulemaking exception* b) Begin stakeholder outreach c) Complete triennial review	T = a) **11/12** b) **2/13** c) **1/14**	Surface Water
PPG	3) Revisit Lakes Narrative Nutrient Standards a) Complete literature and data review, update data analysis, and refine matrix relationships b) Determine if current matrix approach requires modification.	T = a) 11/12 b) 12/12	Surface Water

*Contingent upon Governor's approval.

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	1.00	5,620
PPG	11.00	46,510
TOTAL	12.00	52,130

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.5	**TASK: Ambient Monitoring Program** Conduct ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants. Monitoring to include targeted characterization, planning and/or probabilistic sites in support of 305(b) assessment process. **DELIVERABLES:**		
PPG	1) Ambient stream monitoring a) Conduct ambient stream and lake monitoring per FY 13 sampling and analysis plan throughout Arizona. b) Prepare FY 14 sampling and analysis plan for rivers and streams.	T = a) Quarterly b) 5/13	Surface Water
106 Mon-2 106 Mon-3	2) Fish tissue and sediment sampling program a) Conduct fish tissue and sediment sampling on Arizona lakes and reservoirs for presence of mercury to support fish consumption advisory programs per FY13 sampling plan. b) Prepare FY 14 sampling plan for fish tissue monitoring.	T = a) Quarterly b) 2/13	Surface Water
	3) Complete groundwater basins reports for: a) Butler Valley b) Aravaipa Canyon c) Upper Hassayampa	T = a) 1/13 b) 6/13 c) 6/13	Surface Water

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW)	1.00	3,379
WIFA Fees (CW) NPS PA I [Match]	23.00	95,579
WQARF	2.00	6,758
WQARF NPS PA I [Match]	14.00	48,594
PPG	21.40	75,582
106 Monitoring-3	10.00	35,378
106 Monitoring-2	7.00	26,912
TOTAL	78.40	292,182

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.6	**TASK: 106 Monitoring** Monitoring Initiative (MI) program for implementation of AZ approved comprehensive monitoring strategy. **DELIVERABLES:**		
106 Mon-3	1) Physical integrity a) Evaluate the effectiveness of using relative bed stability as a physical integrity tool by stream type. i) Select contractor and finalize contract ii) Submit draft report to EPA. iii) Submit final report to EPA	T = i) 6/12 ii) 6/13 iii) 6/14	Surface Water
106 Mon-3	2) Intermittent streams a) Conduct intermittent stream monitoring according to the sampling and analysis plan. b) Complete the final report summarizing the results of the intermittent stream sampling and evaluating the effectiveness of using the perennial IBI on intermittent streams to develop intermittent stream biocriteria for water quality standards. Send final report to EPA.	T = a) 6/13 b) 11/13	Surface Water
106 Mon-3	3) Conduct nutrient monitoring for Rivers and Streams per FY13 sampling and analysis plan.	T = Quarterly	Surface Water
106 Mon-2	4) Effluent dependent waters a) Conduct monitoring according to SAP for effluent dependent waters.	T = a) 6/13	Surface Water
	5) Participate in the 2013 and 2014 National River and Stream Survey. a) Conduct field work for all wadeable sites.	T = a) 10/14	Surface Water

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW)	5.00	22,000
106 Monitoring-3	11.00	40,129
106 Monitoring-2	2.00	7,274
TOTAL	18.00	69,403

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.7	**TASK: Water Quality Assessment** Develop Integrated Report and list of impaired waters. **DELIVERABLES:**		
NPS XIII PPG	1) **Submit final 2010 305(b) Integrated Report and 303(d) List submittal to EPA. (NPS Strategy 3.A.1)**	T = **10/12**	Surface Water
	2) Final 2012 305(b) Integrated Report and 303(d) List submittal to EPA. (NPS Strategy 3.A.1)	T = **2/13**	Surface Water
	3) Complete external data collection and integration for 2014 Assessment. (NPS Strategy 3.A.2(	T = 6/13	Surface Water
	4) Identify list of water that were either delisted in 2012 305(b) Assessment or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated. (NPS Strategy 3.A.1 and NPS Strategy 4.A.1)	T = 2/13	Surface Water
	5) Develop SP-12 success stories, in addition to Alum Gulch and Turkey Creek, from candidate list. (NPS Strategy 4.B.1)	T = 6/13	

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	7.00	30,087
PPG	14.00	56,359
NPS XIII	3.00	10,137
TOTAL	24.00	96,583

*-

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.8	**TASK: TMDL Development and Implementation** **Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented.** **DELIVERABLES:**		
NPS PA I NPS XIII	1) TMDL Reports a) Submit **4** TMDL reports to EPA for final approval by June 2013. b) Complete 1st (30 day) public notice for **3** additional TMDLs by June 2013. (NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates	Surface Water
PPG NPS PA I	2) Continue data collection and analysis for TMDL development. Target is **32** TMDLs on **24** waterbody segments; see Continued TMDL Development Status Table. (NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates	Surface Water
NPS PA I	3) Develop TMDL implementation plans. Target is to complete 5 implementation plans; see Develop Implementation Plans Status Table.(NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates	Surface Water
PPG	4) Conduct effectiveness monitoring. Target is to monitor the remedial activities on three Measure W waterbodies **plus three other waterbodies**; see Effectiveness Monitoring Status Table. (NPS Strategy 4.A.1)	T = Semi-Annual Status Table Updates	Surface Water
	5) Provide quarterly updates to TMDL project tables with description of work completed and updates to specific milestones for projects to be completed by June **30**, 2013.	T = Quarterly Updates to TMDL Project Tables	

GOAL #2: Protecting America's Waters Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems.		Program #4500: Surface Water Regulation	
TASK/ GRANT	**OUTPUT DESCRIPTION**	**EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL**	**RESPONSIBLE SECTION/ STAFF**
1.3.8	**TASK: TMDL Development and Implementation (Cont'd)** **DELIVERABLES:**		
	6) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3)c).	T = Monthly TMDL Conference Calls	Surface Water
PPG	7) EPA funded Santa Cruz TMDL Project a) Evaluate feasibility and approach to development of the Santa Cruz TMDL b) Support development, review and approval of products for the Santa Cruz TMDL	T = a) 9/12 b) 6/13	Surface Water

FTE FUNDING SOURCE	MONTHS	AMOUNT
WIFA Fees (CW) NPS PA I [Match]	3.00	7,031
WQARF NPS PA I [Match]	4.00	13,516
PPG	25.00	109,612
NPS PA I	21.00	78,518
NPS XIII	20.00	82,387
TOTAL	73.00	291,064

TMDL Projects Quarterly Status
1.3.8 TMDL Development – Project Completion by June 2013

Segment (impairment)	Milestone (target)	Actual/Comments
Gila River- New Mexico Border to Bitter Creek (SSC)	Submit draft TMDL to EPA (9/30/12)	
	45-day AAR Notice Begins (9/30/12)	
	Submit final to EPA (1/30/13)	
Gila River- Bonita Creek to Yuma Wash (SSC)	Submit draft TMDL to EPA (9/30/12)	
	45-day AAR Notice Begins (9/30/12)	
	Submit final to EPA (1/30/13)	
San Pedro River- Aravaipa Creek to Gila River (*E. coli*)	Submit draft TMDL to EPA (9/30/12)	
	Public Meeting and Comment Period Begins (9/30/12)	
	45-day AAR Notice Begins (11/30/12)	
	Submit final to EPA (2/30/13)	
Watson Lake (Nitrogen, low D.O., high pH)	Complete draft TMDLs (2/1/13)	
	Public Comment Period Begins (4/1/13)	
Granite Creek- headwaters to Willow Creek (Low D.O., *E. coli*)	Complete draft TMDLs (2/1/13)	
	Public Comment Period Begins (4/1/13)	
Miller Creek (*E. coli*)	Same schedule as Granite Creek TMDL	
Alamo Lake (Hg in Fish Tissue)	Submit draft TMDL to EPA (10/1/12)	
	Public Comment Period Begins (10/15/12)	
	45-day AAR Notice Begins (1/1/13)	
	Submit final to EPA (3/1/13)	
Lyman Lake (Hg in Fish Tissue)	Complete draft TMDL (5/1/13)	
Parker Canyon Lake (Hg in Fish Tissue)	Submit draft TMDL to EPA (10/30/12)	
	Public Comment Period Begins (11/30/12)	
	45-day AAR Notice Begins (3/30/13)	
	Submit final to EPA (6/30/13)	

TMDL Projects Quarterly Status
1.3.8 TMDL Development – Project Completion by June 2013

Little Colorado River-Silver Creek to Carr Wash (SSC)	Submit draft TMDL to EPA (10/30/12)	
	Public Meeting and comment Period Begins (11/30/12)	
	45-day AAR Notice Begins (1/30/13)	
	Submit final to EPA (4/30/13)	
Little Colorado River-Silver Creek to Carr Wash (*E. coli*)	Submit draft TMDL to EPA (10/30/12)	
	Public Meeting and comment Period Begins (11/30/12)	
	45-day AAR Notice Begins (1/30/13)	
	Submit final to EPA (4/30/13)	

1.3.8 TMDL Development- Continued TMDL Analysis and Development

Segment	Impairment	Comments
East Verde River- American Gulch to Verde River	As, B	
East Verde River- Ellison Creek to American Gulch	Se	
Bear Canyon Lake	Low pH	
Rose Canyon Lake	Low pH	
Gila River- Centennial Wash to Gillespie Dam	Se, B	
Gila River – Coyote Wash to Fortuna Wash	Se, B	
Alvord Lake	Ammonia	
Cortez Lake	Low D.O., high pH	
Chaparral Lake	Low D.O., *E. coli*	
Queen Creek- headwaters to Superior WWTP	Cu, Pb	
Queen Creek- Superior WWTP to Potts Canyon	Cu	
Queen Creek- Potts Canyon to Whitlow Dam	Cu	
Arnett Creek- Headwaters to Queen Creek	Cu	
Unnamed Trib to Queen Creek (-991)	Cu	
Unnamed Trib to Queen Creek (-1843)	Cu	
Unnamed Trib to Queen Creek (-472)	Cu	
Pinto Creek- headwaters to Ripper Spring*	Cu	
Pinto Creek- Ripper Spring to Roosevelt Lake*	Cu	
Haunted Canyon- Headwaters to Pinto Creek*	Cu	
Five Point Mountain- Headwaters to Pinto Creek*	Cu	
Mule Gulch- headwaters to Above Lavender Pit*	Cu	
Mule Gulch- Above Lavender Pit to Bisbee WWTP*	Cu, pH	

* continued site-specific standard development

1.3.8 TMDL Development- Continued TMDL Analysis and Development

Mule Gulch- WWTP to Highway Bridge*	Cd, Cu, pH, Zn	
Brewery Gulch- headwaters to Mule Gulch*	pH	
Upper Santa Cruz TMDL Project – Nogales Wash, Protero Creek and the Santa Cruz River	E.coli, ammonia, chlorine, dissolved oxygen	

* continued site-specific standard development

TMDL Projects Quarterly Status
1.3.8 TMDL Implementation – Effectiveness Monitoring

Segment	Impairment	Comments
Boulder Creek*	As, Cu, Zn	
Pinto Creek*	Cu	
Turkey Creek*	Cu, Pb	
Tonto and Christopher Creeks	Nitrogen and *E. Coli*	
Little Colorado River	Turbidity	

* Measure W watersheds

1.3.8 TMDL Implementation – Develop Implementation Plans

Segment	Comments
San Pedro River (1 TIP)	
Alamo Lake(1 TIP)	
Lyman Lake(1 TIP)	
Parker Canyon Lake (1 TIP)	
Little Colorado River (2 TIPs-one for SSC and *E. coli* each)	
Alvord Lake(1 TIP)	
Cortez Lake (1 TIP)	
Chaparral Lake (1 TIP)	
Queen Creek (multiple reaches, 1 TIP)	
Pinto Creek (multiple reaches, 1 TIP)	
Lake Mary Regional (multiple lakes 1 TIP)	
Gila River SSC (1 TIP)	